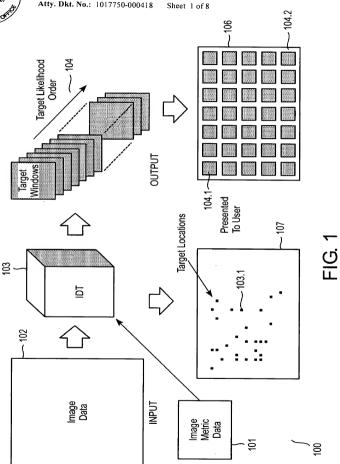
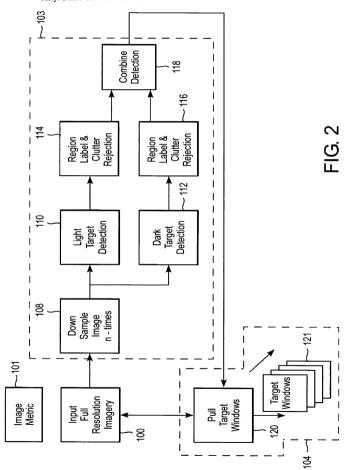
Appln. Filing Date: October 15, 2001
Title: TWO DIMENSIONAL AUTONOMOUS ISOTROPIC DETECTION TECHNIQUE Inventor(s): Harry C. Lee Atty. Dkt. No.: 1017750-000418



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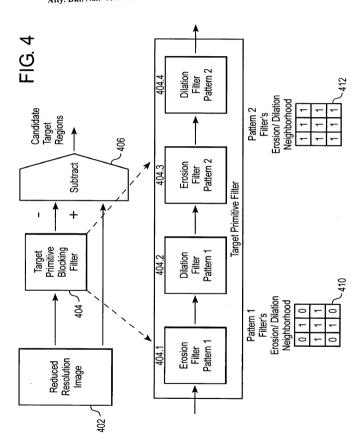


### REPLACEMENT SHEETS Appln. Filing Date: October 15, 2001 Title: TWO DIMENSIONAL AUTONOMOUS ISOTROPIC DETECTION TECHNIQUE Inventor(s): Harry C. Lee Y Direction Filter Atty. Dkt. No.: 1017750-000418 Sheet 3 of 8 Convolution Filter 304 16 24 16 24 Full 6 by 6 8 X Direction Filter 24 9 ဖ 4 24 16 9 8 4 FIG. 3B 2:1 Down Sampling . 108 108 믉 Down Sample In Y Direction 08.4 2:1 Down --Sampling 108b 2nd Direction 2:1 Down Sampling 108.3 Low Pass Filter In Y Down Sample In X Direction 2:1 Down Sampling 108.2 108a <u>s</u> Low Pass Filter In X Direction <u>`</u>.

FIG. 3A

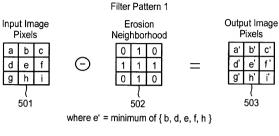
Appln. Filing Date: October 15, 2001 Title: TWO DIMENSIONAL AUTONOMOUS

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Atty. Dkt. No.: 1017750-000418 Shee Sheet 4 of 8



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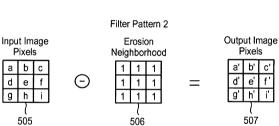


FIG. 5A

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Filter Pattern 1 Input Image Dilation Output Image Pixels . Pixels Neighborhood d e' 1 е h' g 0 508 510

where e' = maximum of { b, d, e, f, h }

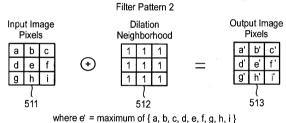


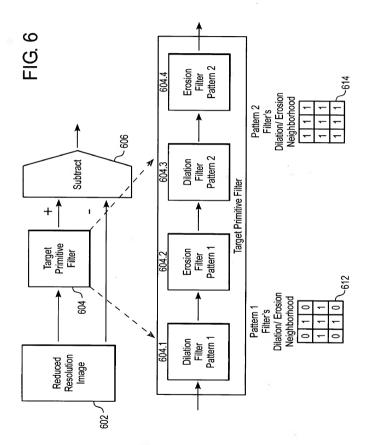
FIG. 5B

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ISOTROPIC DETECTION TECHNIQUE

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